Appl. No. 09/920,342 Amdt. Dated September 12, 2006 Reply to Office Action of June 12, 2006

Attorney Docket No. 89188.0022

Customer No. 26021

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-31. (Canceled)

- 32. (Currently Amended) A method for inhibiting the expression of a target gene in a cell that expresses the targeted gene, comprising the steps of:
- a) providing a composition comprising an mRNA-cDNA hybrid duplex prior to contacting said cell, wherein the mRNA-cDNA hybrid duplex is capable of inhibiting the expression of said targeted gene in said cell; and
- b) contacting said cell with said composition under conditions such that the expression of said gene in said cell is inhibited.

wherein the mRNA is a ribonucleic acid sequence in the sense orientation of said targeted gene and the cDNA is a deoxyribonucleic acid sequence in the antisense orientation of said targeted gene. and wherein the mRNA-cDNA hybrid duplex forms between said mRNA and said cDNA in a complementary region containing more than 500 base pairs.

33. (Canceled)

- 34. (Previously Presented) The method of Claim 32, wherein said cell expresses said targeted gene in vivo.
- 35. (Original) The method of Claim 32, wherein said targeted gene comprises a gene selected from the group consisting of pathogenic nucleic acids, viral genes, mutated genes, and oncogenes.

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- 36. (Previously Presented) The method of Claim 32, wherein said mRNAcDNA hybrid duplex inhibits β-catenin expression.
 - 37. (Canceled)
- (Previously Presented) The method of Claim 32, wherein said cell is a 38. prokaryotic cell.
 - 39. (Canceled)
- 40. (Previously Presented) The method of Claim 38, wherein said cell is a bacterial cell.
- 41. (Previously Presented) The method of Claim 32, wherein said cell is a cell of an eukaryote.
- **4**2. (Original) The method of Claim 41, wherein said eukaryote is a vertebrate.
 - 43. (Original) The method of Claim 41, wherein said eukaryote is a mouse.
- (Original) The method of Claim 41, wherein said eukaryote is 44. chimpanzee.
- (Original) The method of Claim 41, wherein said eukaryote is a human 45. being.

46.-54. (Canceled)

55. (Previously Presented) The method of Claim 32, wherein the composition consists of an mRNA-cDNA hybrid duplex capable of inhibiting the expression of said targeted gene.

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56.-57. (Canceled)

- (Previously Presented) The method of Claim 55, wherein said cell 58. expresses said targeted gene in vivo.
- (Previously Presented) The method of Claim 55, wherein said targeted 59. gene comprises a gene selected from the group consisting of pathogenic nucleic acids, viral genes, mutated genes, and oncogenes.
- 60. (Previously Presented) The method of Claim 55, wherein said mRNAcDNA hybrid duplex inhibits \(\theta\)-catenin expression.
- 61. (Previously Presented) The method of Claim 55, wherein said cell is a prokaryotic cell.
 - 62. (Canceled)
- 63. (Previously Presented) The method of Claim 61, wherein said cell is a bacterial cell.
- 64. (Previously Presented) The method of Claim 55, wherein said cell is a cell of an eukaryote.
- (Previously Presented) The method of Claim 64, wherein said 65. eukaryote is a vertebrate.
- (Previously Presented) The method of Claim 64, wherein said 66 eukaryote is a mouse.
- 67. (Previously Presented) The method of Claim 64, wherein said eukaryote is chimpanzee.

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- 68. (Previously Presented) The method of Claim 64, wherein said eukaryote is a human being.
- 69. (New) A method for inhibiting the expression of a target gene in a cell that expresses the targeted gene, comprising the steps of:
- a) providing a composition comprising an mRNA-cDNA hybrid duplex prior to contacting said cell, wherein the mRNA-cDNA hybrid duplex is capable of inhibiting the expression of said targeted gene in said cell; and
- b) contacting said cell with said composition under conditions such that the expression of said gene in said cell is inhibited.

wherein the mRNA is a ribonucleic acid sequence in the sense orientation of said targeted gene and the cDNA is a deoxyribonucleic acid sequence in the antisense orientation of said targeted gene, and wherein the mRNA is a full-length transcript of said targeted gene.

- 70. (New) The method of Claim 69, wherein the mRNA is an unspliced mRNA transcript of the targeted gene.
- 71. (New) The method of Claim 69, wherein the mRNA is a spliced mRNA transcript of the targeted gene.